



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4710003/RWE/FRC	APPLICATION NO. 10/761,278
	APPLICANT Donahue et al.	
	FILING DATE January 22, 2004	GROUP 1652

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NN	AA1	3,843,453	10/22/1974	Freake, et al.			03/02/1973
NN	AB1	4,038,143	07/26/1977	Juni			08/15/1975
NN	AC1	4,446,230	05/01/1984	Zubrzycki			10/30/1981
NN	AD1	4,520,019	05/28/1985	Ribi, et al.			03/19/1984
NN	AE1	4,681,852	07/21/1987	Tribe			01/18/1983
NN	AF1	4,808,404	02/28/1989	Bhogal			01/11/1988
NN	AG1	4,824,938	04/25/1989	Koyama, et al.			08/31/1987
NN	AH1	4,851,348	07/25/1989	Hanahan			07/16/1986
NN	AI1	4,891,319	01/02/1990	Roser			05/07/1987
NN	AJ1	4,950,609	08/21/1990	Tischer, et al.			03/27/1986
NN	AK1	4,981,797	01/01/1991	Jessee, et al.			11/14/1988

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NN	AL1	AU-A-27434/88	06/29/1989	Australia			Yes No
NN	AM1	EP 0 383 569 A2	08/22/1990	Europe			Yes No
NN	AN1	EP 0 508 496 A1	10/14/1992	Europe			Yes No
NN	AO	WO 98/49266	11/05/1998	WIPO			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	1	Anderson, D.M.W. and I.C.M. Dea, "Recent advances in the chemistry of Acacia gums," J. Soc. Cosmet. Chem. 22:61-76, Society of Cosmetic Chemists of Great Britain (1971).
NN	AS	1	Alexander, D.C. et al., "A simplified and efficient vector-primer cDNA cloning system," Gene 31:79-89, Elsevier Science (1984).
NN	AT	1	Chung, C.T. et al., "One-step preparation of competent Escherichia coli: Transformation and storage of bacterial cells in the same solution," Proc. Natl. Acad. Sci. USA 86:2172-2175, The National Academy of Sciences (1989).

EXAMINER /Nashaat Nashed/ (05/04/2006) <i>NZ</i>	DATE CONSIDERED
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NN	AA2	5,045,446	09/03/1991	Goodrich, Jr., et al.			07/11/1989
NN	AB2	5,059,518	10/22/1991	Kortright, et al.			10/20/1988
NN	AC2	5,098,893	03/24/1992	Franks, et al.			02/12/1990
NN	AD2	5,292,507	03/08/1994	Charley			09/14/1992
NN	AE2	5,425,951	06/20/1995	Goodrich, Jr., et al.			05/31/1991
NN	AF2	5,512,468	04/30/1996	Greener			11/22/1993
NN	AG2	5,891,692	04/06/1999	Bloom, et al.			03/27/1997
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	AL						Yes: No:
	AM						Yes: No:
	AN						Yes: No:
	AO						Yes: No:
	AP						Yes: No:

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	2	Cosloy, S.D. and M. Oishi, "Genetic Transformation in <i>Escherichia coli</i> K12," <i>Proc. Natl. Acad. Sci. USA</i> 70:84-87, The National Academy of Sciences (1973).				
NN	AS	2	Cronan, Jr., J.E., "Thermal Regulation of the Membrane Lipid Composition of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 250:7074-7077, American Society for Biochemistry and Molecular Biology (1975).				
NN	AT	2	Crowe, J.H. et al., "Stabilization of dry phospholipid bilayers and proteins by sugars," <i>Biochem. J.</i> 242:1-10, American Chemical Society (1987).				

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	3	Danilevskaya, O.N. and A.I. Gragerov, "Curing of <i>Escherichia coli</i> K12 Plasmids by Coumermycin," <i>Molec. Gen. Genet.</i> 178:233-235, Springer Verlag (1980).
NN	AS	3	de Mendoza, D. et al., "Overproduction of <i>cis</i> -Vaccenic Acid and Altered Temperature Control of Fatty Acid Synthesis in a Mutant of <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 151:1608-1611, American Society for Microbiology (1982).
NN	AT	3	de Mendoza, D. et al., "Thermal Regulation of Membrane Fluidity in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 258:2098-2101, American Society for Biochemistry and Molecular Biology (1983).

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NN	AR	<u>4</u>	de Mendoza, D. and J.E. Cronan, Jr., "Thermal regulation of membrane lipid fluidity in bacteria," <i>TIBS</i> 8:49-52, Elsevier Science (1983).
NN	AS	<u>4</u>	Dityatkin, S. Ya. and B.N. Il'yashenko, "Acceptor properties of freeze-thawed bacteria in relation to isolated plasmid DNA," <i>Chem. Abs.</i> 89:295, Abstract No. 176192r, The American Chemical Society (1978).
NN	AT	<u>4</u>	Dityatkin, S.Ya. and B.N. Ilyashenko, "Frozen and thawed bacteria as recipients of isolated phage and plasmid DNA," <i>Chem. Abs.</i> 90:322, Abstract No. 183010d, The American Chemical Society (1979).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	5	Dutyatkin, S. Ya. and B.N. Il'yashenko, "Chromosomal transformation of frozen-thawed bacteria," <i>Chem. Abs.</i> 90:286-287, Abstract No. 148301c, The American Chemical Society (1979).
NN	AS	5	Gombos, Z. et al., "Unsaturation of fatty acids in membrane lipids enhances tolerance of the cyanobacterium <i>Synechocystis</i> PCC6803 to low-temperature photoinhibition," <i>Proc. Natl. Acad. Sci. USA</i> 89:9959-9963, The National Academy of Sciences (1992).
NN	AT	5	Green, J.L. and C.A. Angell, "Phase Relations and Vitrification in Saccharide-Water Solutions and the Trehalose Anomaly," <i>J. Phys. Chem.</i> 93:2880-2882, American Chemical Society (1989).

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	AN						Yes Nc
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	AP						Yes Nc

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NN	AR	<u>6</u>	Hanahan, D., "Techniques for Transformation of <i>E. coli</i> ," in <i>DNA cloning. Volume I. a practical approach</i> , Glover, D.M., ed., IRL Press Limited, Oxford, England, pp. 109-135 (1985).
NN	AS	<u>6</u>	Hanahan, D. et al., "Plasmid Transformation of <i>Escherichia coli</i> and Other Bacteria," <i>Meth. Enzym.</i> 204:63-113, Academic Press, Inc. (1991).
NN	AT	<u>6</u>	Hatley, R.H.M. et al., "The Stabilization Of Labile Biochemicals By Undercooling," <i>Process Biochem.</i> 22:169-172, Elsevier Science Ltd. (1987).

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	2	Hatley, R.H.M. and F. Franks, "Variation in Apparent Enzyme Activity in Two-Enzyme Assay Systems: Phosphoenolpyruvate Carboxylase and Malate Dehydrogenase," <i>Biotechnol. & Appl. Biochem.</i> 11:367-370, Portland Press Ltd. (1989).
NN	AS	2	Heckly, R.J. and J. Quay, "A Brief Review of Lyophilization Damage and Repair in Bacterial Preparations," <i>Cryobiology</i> 18:592-597, Academic Press Inc. (1981).
NN	AT	2	Konev, S.V. et al., "Membrane-structural mechanism of the development of competence in <i>Escherichia coli</i> cells to calcium-dependent transfection by bacteriophage λ DNA," <i>Chem. Abs.</i> 89:295, Abstract No. 176191q, The American Chemical Society (1978).

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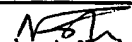
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NN	AR	8	Lin, J.-J. and J. Kuo, "AFLP™: A Novel PCR-Based Assay for Plant and Bacterial DNA Fingerprinting," <i>Focus</i> 17:66-70, Invitrogen Corporation (1995).
NN	AS	8	Merck Index: An Encyclopedia of Chemicals, Drugs, and Biologicals, 11th edition, Budavari, S. et al., eds., Merck & Co., Inc., Rahway, NJ, p. 3 (1989).
NN	AT	8	Morrison, D.A., "Transformation and Preservation of Competent Bacterial Cells by Freezing," <i>Meth. Enzym.</i> 68:326-331, Academic Press, Ltd. (1979).

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NN	AR	2	Polisky, B. et al., "Specificity of substrate recognition by the EcoRI restriction endonuclease," <i>Proc. Natl. Acad. Sci. USA</i> 72:3310-3314, The National Academy of Sciences (1975).
NN	AS	2	Pope, B. and H.M. Kent, "High efficiency 5 min transformation of <i>Escherichia coli</i> ," <i>Nucleic Acids Res.</i> 24:536-537, Oxford University Press (1996).
NN	AT	2	Reusch, R.N. et al., "Poly- β -Hydroxybutyrate Membrane Structure and Its Relationship to Genetic Transformability in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 168:553-562, American Society for Microbiology (1986).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	10	Simione, Jr., F.P., "Key Issues Relating to the Genetic Stability and Preservation of Cells and Cell Banks," <i>J. Parenteral Sci. & Technol.</i> 46:226-232, Parental Drug Association, Inc. (1992).
NN	AS	10	Suzuki, M. and A.A. Szalay, "Bacterial Transformation Using Temperature-Sensitive Mutants Deficient in Peptidoglycan Synthesis," <i>Meth. Enzym.</i> 68:331-342, Academic Press (1979).
NN	AT	10	Tang, X. et al., "The optimization of preparations of competent cells for transformation of <i>E. coli</i> ," <i>Nucleic Acids Res.</i> 22:2857-2858, Oxford University Press (1994).

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NN	AR	<u>11</u>	Trinh, T. et al., "STBL2™: An <i>Escherichia coli</i> Strain for the Stable Propagation of Retroviral Clones and Direct Repeat Sequences," <i>FOCUS</i> 16:78-80, Invitrogen Corporation (1994).
NN	AS	<u>11</u>	Ulrich, A.K. et al., "Genetic and Biochemical Analyses of <i>Escherichia coli</i> Mutants Altered in the Temperature-Dependent Regulation of Membrane Lipid Composition," <i>J. Bacteriol.</i> 154:221-230, American Society for Microbiology (1983).
NN	AT	<u>11</u>	van Die, I.M. et al., "Transformation in <i>Escherichia coli</i> : Studies on the Role of the Heat Shock in Induction of Competence," <i>J. Gen. Microbio.</i> 129:663-670, Society for General Microbiology (1983).

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	AP						Yes No

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NN	AR	<u>12</u>	Wada, H. et al., "Contribution of membrane lipids to the ability of the photosynthetic machinery to tolerate temperature stress," <i>Proc. Natl. Acad. Sci. USA</i> 91:4273-4277, The National Academy of Sciences (1994).
NN	AS	<u>12</u>	Weisburd, S., "Death-Defying Dehydration. Sugars sweeten survival for dried-out animals, membranes and cells," <i>Science News</i> 133:107-110, Science Services (1988).
NN	AT	<u>12</u>	Life Technologies, Inc. 1993-94 Catalogue and Reference Guide, GIBCO BRL, Gaithersburg, MD, pub., pp. 6-10 and 9-4 (1993).

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NN	AR	<u>13</u>	Bullock, W.O. et al., "XL1-Blue: A High Efficiency Plasmid Transforming <i>recA</i> <i>Escherichia coli</i> Strain With Beta-Galactosidase Selection," <i>BioTechniques</i> 5:376-378, Eaton Publishing Co. (1987).
NN	AS	<u>13</u>	Cohen, S.N. et al., "Nonchromosomal Antibiotic Resistance in Bacteria: Genetic Transformation of <i>Escherichia coli</i> by R-Factor DNA," <i>Proc. Natl. Acad. Sci. USA</i> 69:2110-2114, National Academy of Sciences (1972).
NN	AT	<u>13</u>	Dagert, M. and Ehrlich, S.D., "Prolonged Incubation In Calcium Chloride Improves The Competence Of <i>Escherichia coli</i> Cells," <i>Gene</i> 6:23-28, Elsevier/North-Holland Biomedical Press (1979).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	14	Dente, L. et al., "pEMBL: a new family of single stranded plasmids," <i>Nucleic Acids Res.</i> 11:1645-1655, IRL Press Limited (1983).
NN	AS	14	Dower, W.J. et al., "High efficiency transformation of <i>E.coli</i> by high voltage electroporation," <i>Nucleic Acids Res.</i> 16:6127-6145, IRL Press Limited (1988).
NN	AT	14	GIBCO-BRL Catalog, Life Technologies, 1993-1994, pages 9-6 abd 9-10 (1993).

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.4710003/RWE/PRC	APPLICATION NO. 10/761,278
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	AM						Yes. No.
	AN						Yes. No.
	AO						Yes. No.
	AP						Yes. No.

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	<u>15</u>	Hamrick, J.L. and R.W. Allard., "Microgeographical Variation in Allozyme Frequencies in <i>Avena barbata</i> ," <i>Proc. Natl. Acad. Sci USA</i> 69:2100-2104, The National Academy of Sciences (1972).
NN	AS	<u>15</u>	Hanahan, D., "Studies on Transformation of <i>Escherichia coli</i> with Plasmids," <i>J. Mol. Biol.</i> 166:557-580, Academic Press Inc. (1983).
NN	AT	<u>15</u>	Hanahan, D. and F.R. Bloom, "Mechanisms of DNA Transformation," in <i>Escherichia coli and Salmonella</i> , Neidhardt, F.C. et al., eds., Cellular and Molecular Biology, ASM Press, Washington, DC., pp. 2448-2459, (1996).

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	AN						Yes: No:
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	AP						Yes: No:

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NN	AR	<u>16</u>	Inoune, H. et al., "High efficiency transformation of <i>Escherichia coli</i> with plasmids," <i>Gene</i> 96:23-28, Elsevier (1990).
NN	AS	<u>16</u>	Kushner, S.R., "An Improved Method For Transformation of <i>Escherichia Coli</i> With ColE1 Derived Plasmids," Paper (distributed at meeting) from Proceedings of the International Symposium on Genetic Engineering: Scientific Developments and Practical Applications, Milan, Italy, March 29-31, 1978.
NN	AT	<u>16</u>	Levinson, A. et al., "Minimal Size Plasmids Containing an M13 Origin for Production of Single-Strand Transducing Particles," <i>J. Mol. Applied Genet.</i> 2:507-517, Raven Press (1984).

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NN	AR	<u>17</u>	Liss, L.R., "New M13 Host:DH5 α F' Competent Cells," <i>Focus</i> 9:13, Invitrogen Corporation (1987).
NN	AS	<u>17</u>	Liu, H. and Rashidbaigi, A., "Comparison of Various Competent Cell Preparation Methods for High Efficiency DNA Transformation," <i>BioTechniques</i> 8:21-25, Eaton Publishing Co. (1990).
NN	AT	<u>17</u>	Mandal, M. and Higa, A., "Calcium-dependent Bacteriophage DNA Infection," <i>J. Mol. Biol.</i> 53:159-162, Academic Press Ltd. (1970).

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NN	AR	18	Meselson, M. and R. Yuan, "DNA Restriction Enzyme from <i>E. coli</i> ," <i>Nature</i> 217:1110-1114, Nature Publishing Group (1968).
NN	AS	18	Messing, J., "M13mp2 And Derivatives: A Molecular Cloning System For DNA Sequencing, Strand-Specific Hybridization, And <i>In Vitro</i> Mutagenesis," in <i>Recombinant DNA. Proceedings of the Third Cleveland Symposium on Macromolecules</i> , Cleveland, Ohio, 22-26 June 1981, Walton, A.G., ed., Elsevier Scientific Publishing Co., Amsterdam, The Netherlands, pp. 143-153 (1981).
NN	AT	18	Neumann, E. et al., "Gene transfer into mouse lyoma cells by electroporation in high electric fields," <i>EMBO J.</i> 7:841-845, Oxford University Press (1982).

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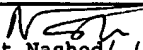
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	<u>19</u>	Newman, T. et al., "Cloning and Expression of the <i>ilvB</i> Gene of <i>Escherichia coli</i> K-12," <i>Mol. Gen. Genet.</i> 186:378-384, Springer-Verlag (1982).
NN	AS	<u>19</u>	Norgard, M.V. et al., "Factors Affecting The Transformation Of <i>Escherichia coli</i> Strain χ 1776 By pBR322 Plasmid DNA," <i>Gene</i> 3:279-292, Elsevier/North-Holland Biomedical Press (1978).
NN	AT	<u>19</u>	Old, R.W. and Primrose, S.B., "Cloning strategies, gene libraries and cDNA cloning; Recombinant Selection; Expression of cloned DNA molecules," in <i>Principles of Gene Manipulation</i> , Carr N.G., ed., Blackwell Scientific Publications, Osney Mead, Oxford, pp. 100-166 (1994).

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NN	AR	20	Old, R.W. and Primrose, S.B., "An Introduction to Genetic Engineering," in <i>Principles of Gene Manipulation. An Introduction To Genetic Engineering</i> , Carr, N.G., ed., Blackwell Science, Osney Mead, Oxford, pp. 6-21 (1995).
NN	AS	20	Potter, H., "Electroporation in Biology: Methods, Applications, and Instrumentation," <i>Analyt. Biochem.</i> 174:361-373, Academic Press, Inc. (1988).
NN	AT	20	Sambrook, J. et al., "Preparation and Transformation of Competent <i>E. Coli</i> ," in <i>Molecular Cloning</i> , Sambrook, J., Fritsch, E.F., and Maniatis, T., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, pp. 1.74-1.84 (1989).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
NN	AR	<u>21</u>	Sambrook, J. et al., "Plasmid Vectors," in <i>Molecular Cloning</i> , Sambrook, J., Fritsch, E.F., and Maniatis, T., eds. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, p. 1.14 (1989).
NN	AS	<u>21</u>	Taketo, A., "Sensitivity of <i>Escherichia coli</i> to Viral Nucleic Acid, VIII. Idiosyncrasy of Ca ²⁺ -dependent Competence for DNA," <i>J. Biochem.</i> 75:895-904, The Japanese Biochemical Society (1974).
NN	AT	<u>21</u>	Taketo, A., "Sensitivity of <i>Escherichia coli</i> to Viral Nucleic Acid, X, Ba ²⁺ - Induced Competence for Transfecting DNA," <i>Z. Naturforsch. Sect. C</i> 30:520-522, Springer-Verlag (1975).

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NN	AR	22	Taketo, A., "Sensitivity of <i>Escherichia coli</i> to Viral Nucleic Acid, XII. Ca^{2+} - or Ba^{2+} -Facilitated Transfection of Cell Envelope Mutants," <i>Z. Naturforsch. Sect. C</i> 32:429-433, Springer-Verlag (1977).
NN	AS	22	Tucker, W.T., et al., "Structural and Functional Analysis of the <i>par</i> Region of the pSC101 Plasmid," <i>Cell</i> 38:191-201, MIT (1984).
NN	AT	22	Vieira, J. and Messing, J., "Production of Single-Stranded Plasmid DNA," <i>Methods Enzymol.</i> 153:3-11, Academic Press, Inc. (1987).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
NN	AR	<u>23</u>	Yanisch-Perron, C. et al., "Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors," <i>Gene</i> 33:103-119, Elsevier Science (1985).
NN	AS	<u>23</u>	Zagursky, R.J. and Berman, M.L., "Cloning vectors that yield high levels of single-stranded DNA for rapid DNA sequencing," <i>Gene</i> 27:183-191, Elsevier (1984).
NN	AT	<u>23</u>	Zimmermann, U. and Vienken, J., "Electric Field-Induced Cell-to-Cell Fusion," <i>J. Membrane Biol.</i> 67:165-182, Springer-Verlag (1982).

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